## Status of the Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

- 1. (currently amended) A lithographic apparatus, comprising: an illumination system that produces a plurality of sub-beams of radiation;
- a plurality of patterning arrays of individually controllable elements <u>arranged in</u> <u>different predetermined positions in an object plane</u>, wherein each patterning array patterns a respective sub-beam with a pattern, the patterning arrays being spaced apart in an object plane;
  - a substrate table that supports a substrate; and
- a projection system that projects the patterned sub-beams onto a substrate, such that the patterned sub-beams overlap to form a combined image on a target portion of the substrate,

wherein, based on the patterning arrays being arranged in different predetermined positions in the object plane, respective sub-beams arrive at different angles at a pupil plane, such that the combined image has a high numerical aperture.

- 2. (original) The apparatus according to claim 1, wherein the projection system comprises:
- a plurality of field lens systems corresponding in number to the patterning arrays; and
- a common part, whereby the field lens systems form images of their respective patterning arrays in a pupil plane of the common part.
- 3. (original) The apparatus according to claim 2, wherein said projection system has an overall magnification of from about 1/2 to about 1/5.

- 4. (original) The apparatus according to claim 1, wherein said illumination system comprises a single radiation source from which the plurality of sub-beams are derived.
- 5. (original) The apparatus according to claim 4, wherein said illumination system further comprises phase adjustors in the paths of the separate sub-beams.
- 6. (original) The apparatus according to claim 1, wherein said illumination system comprises light guides that guide the sub-beams to their respective patterning arrays.
- 7. (original) The apparatus according to claim 1, wherein said illumination system comprises an optical system including one or more beam directing mirrors.
- 8. (currently amended) The apparatus according to claim 1, further comprising wherein the plurality of patterning arrays comprises two a second patterning arrays.
- 9. (currently amended) The apparatus according to claim 1, further comprising wherein the plurality of patterning arrays comprises four second through fourth patterning arrays.

10. (currently amended) A device manufacturing method, comprising: producing a plurality of sub-beams of radiation using an illumination system; positioning each patterning array of individually controllable elements in a plurality of patterning arrays of individually controllable elements at a different predetermined position in an object plane;

imparting respective ones of said sub-beams with a pattern using a <u>the</u> plurality of patterning arrays of individually controllable elements, such that each of the patterned sub-beams arrives at a pupil plane from a different angle; and

projecting the patterned sub-beams of radiation onto a substrate, such that <u>the</u> <u>patterned sub-beams</u> they overlap <u>to</u> and form a combined image <u>having a high</u> <u>numerical aperture</u> on a target portion of the substrate.

## 11. (currently amended) A method, comprising:

patterning individual beams of radiation generated from an illumination source using a respective individual patterning array in a plurality of patterning arrays of individually controllable elements, the patterning arrays being located at different predetermined positions spaced apart in an object plane, such that each of the patterned sub-beams arrives at a pupil plane from a different angle; and

overlapping the individual patterned beams to form a combined image on a target portion of a substrate, whereby the patterned individual beams arrive from different angles so that the combined image has a higher effective numerical aperture.